

Rheumatism

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An Inaugural Essay
For the degree of
Doctor of Medicine
Submitted to the
Examination of the
Provost



The Trustees and
Medical Professors of the
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On the Nineteenth day of April
1810

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In the office of
Office of Medicine
Submitted to the
Committee of the
Board
The President and
Medical Officers of the
University of Pennsylvania
On the 10th day of April
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For the prosecution of this essay I propose to treat
of the different forms of Rheumatism, taught in our
School under the names of Rheumatism, Rhumatisme,
and Rhumatalgia. —

Rheumatism is a disease generally affecting
the large joints, particularly those that are most
acted on in the different exercises of the body.

It also affects the muscles of the extremities, and is occa-
sionally found to affect other parts more or less con-
nected with such as are primarily attacked. It occurs
at all seasons of the year, but most frequently in
Autumn and Winter; and is more a disease of
cold and variable, than of warm climates. —

In the preceding chapter I have observed that
of the different forms of Rheumatism, taught in
that order, the most common is Rheumatism
of the Joints. —
Rheumatism is a disease generally affecting
the large joints, particularly the knee, but not
rarely the wrist, the hip, the elbow, the
ankle, and the base of the spine. It is
characterized by a swelling, redness, and
pain in the affected joint, and is
usually attended by a fever, and
sometimes by a general inflammation of
the system. It is most common in
the spring and autumn, and is
more prevalent in the middle
ages than in youth or old age.

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after a Winter that has been uniformly cold, it often prevails in the spring, and violent inflammatory cases are sometimes met with in the summer. It affects persons chiefly in the meridian of life, or at any period between the age of puberty and the fortieth year. Sailors, Soldiers, fishermen and others who are much exposed to violent and irregular exercise, and to great vicissitudes of temperature are most subject to its attacks.

The Causes which concur in the production of Rheumatism, may be divided into the remote, the predisposing, the exciting and the proximate. The most common remote causes of the disease are violent exercise and irregular labour which dispose to it, by inducing debility in the joints and muscles which are

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are its ordinary seats. But every thing tending to produce debility in other parts of the body that are allowed to be either primarily or secondarily susceptible of it, may be regarded as a remote cause of the complaint.

The predisposing cause of Rheumatism is debility, either directly or indirectly induced in those parts which it is generally observed to attack. ~

The exciting causes of the disease are the same as those which excite other inflammatory affections; such as intemperance in eating and drinking, sudden changes of the weather, cold either generally or partially applied to the body, damp air, the continued application of cold water, wet clothes, lying in damp
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shuts, sitting or lying in moist grounds, travelling in the night or being much exposed to the night air: In short cold and moisture applied in any way so as suddenly to check perspiration or to produce an undue determination to the joints, or other debilitated parts. Under this head may also be enumerated repelled eruptions, excessive discharges of any kind, and the sudden stopping of customary or natural evacuations; they all act by exciting morbid, disordered or unnatural actions in the system, which have a necessary tendency to fix themselves upon parts predisposed to disease. Rheumatism is also sometimes the effect of Scourge, Lues Venerea, and protracted intermitting or remitting fevers.

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The proximate cause of Rheumatism is that morbid, unnatural or irregular action in the vessels of the part or parts affected exhibiting itself in the various phenomena or symptoms of the disease which come next to be considered. —

The symptoms usually characterising a paroxysm of acute Rheumatism, are heat, redness and tension of the part affected with a sense of throbbing, great sensibility, and the ordinary signs of inflammatory diathesis in other parts of the system, such as a full, tense, frequent and bounding pulse, thirst, heat, restlessness and a sense of extreme anxiety. The disease usually commences with a chill, & with sensations of heat and cold alternating with each other.

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The chill which usher in an attack of Rheumatism, is often very violent, and continues in some cases for several hours; it is then succeeded by a fever, which abates after sometime, and during its abatement the patient will often be visited by a gentle perspiration. The urine is sometimes high coloured, depositing a copious sediment after a few days; at other times it is perfectly clear without any sediment whatever. Pain more or less severe commonly attends, and is rendered excruciating on the slightest motion, manifesting at certain stages of the disease a great disposition to translocate itself from joint to joint especially during the night. Towards morning a gentle or copious perspiration breaks out attended with an abatement or remission of fever ^{and}

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patient will often be seized by a gentle inflammation
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and a partial alleviation of pain; and the patient in some instances during the day finds himself tolerably easy while free from motion. But generally towards night the paroxysm returns bringing back all the symptoms with their usual severity, and the patient's sufferings are again renewed. This however is not by any means uniformly the case, for the pain in some instances is equally acute in the day, or suffers little or no perceptible remission.

After these symptoms have continued for some time, a swelling of the part principally affected becomes obvious & considerable. The pain after this is not so acute, but is renewed on the slightest impression.

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diminishes, does not always carry off the pain or secure
the joint against a second attack. The swelling
which takes place in inflammatory Rheumatism
is probably the consequence of an effusion of lymph
or serum from the blood vessels.

Rheumatism differs from Gout in being more centrifugal; that is, in being less liable to affect the stomach, the brain and viscera, in being attended with more arterial action, and in being chiefly confined, when it attacks the extremities, to the larger joints. They appear nevertheless to be nothing but different forms or modifications of the same disease, varied by their seats, by their causes, and by the various circumstances of predisposition which concur to give rise to them.

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Doctor Sydenham describes a *Scolutic Rheumatism* which he says, was not attended with much fever or swelling, and in which the pains were more wandering, and the symptoms not uniform. Females and ^{more} effeminate constitutions are said to be most liable to this form of the disease. But Doctor Rush in a note to the works of Doctor Sydenham, observes that ^{it} is a very rare occurrence in the United States.

Rheumatism in its common forms is seldom fatal. The inflammation and swelling accompanying it differs from almost all others, generally terminating in resolution, rarely in suppuration, and never in gangrene. When death occurs it is either in consequence of Suppuration or some other morbid ^{local}

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local affection producing hectic fever, or of a translocation
of the disease to more vital parts. When it occurs in
old people it is seldom cured.

In the cure of acute Rheumatism
we are to be governed by two principal indications: the
first of which is to reduce the fever and inflammatory
diathesis which may be present; the second to alleviate
pain and by proper local applications to reduce the
inflammation and swelling of the part or parts af-
fected.

To answer the first indication, our first
remedy is bloodletting. Blood should be drawn in
large quantities, and the bleeding repeated more or
less frequently according to the greater or less

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fulness and hardness of the pulse. Large and repeated bleedings during the first days of this disease, are highly necessary, and for the following reasons; first because they tend to shorten the period of the disease. 2ly. They lessen the severity of the pain which attends it. 3ly. They prevent the system from wearing itself away by fruitless efforts and thereby prevent a predisposition to a second attack. 4ly. They prevent those morbid effusions which lay the foundation of erythema and other concussions between the joints, and thereby prevent lameness and deformity. 5ly and lastly. They supersede in a great measure the exhibition of active purges the operation of which is extremely inconvenient and distressing.

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The next remedy to be mentioned under this head is
purging. The purges most proper in Rheumatism are
those that act slowly and gently on the bowels, such
as Sulphur, Cream of Tartar, Castor oil, the neutral
salts &c. They give relief in two ways (viz) by removing
constipation, and by discharging bile and other acrid
substances from the intestines, which are often the
means of aggravating the symptoms of the disease.

Antimonialls are recommended, but do not
promise to be of much service, except when given
in small and nauseating doses to excite perspiration.

Another remedy of great importance in
the treatment of Rheumatism, is sweating.

Medicines given to excite sweating in this disease
should

The most common & the most dangerous
of all the fevers is the inflammation
of the lungs, or pneumonia. It is
characterized by a dry cough, and
by a rapid pulse, and by a
feverish state of the system.
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should be of the least heating or stimulant kind,
such as Nitre, Tartar Emetic, Spicaeantha, and the like.
Dover's powder is an excellent medicine in Rheumatism,
and when judiciously administered does great service.
If aided by draughts of warm debilitating drinks
it excites a copious discharge from the skin at the
same time that it lessens the pain and induces sleep.
After the lancet has been used liberally Digitalis may
be given with advantage. The following formula*
has been advised. Take of Tincture of digitalis from
80 to 100 drops of crude nitre one drachm and of pure
water eight ounces. M. this to be taken in 24 hours
The patient throughout the whole of his disease ^{should} be
kept cool and quiet of profligate, and avoid all
irritating

*D. Barton

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To fulfil the second indication a variety of remedies have been recommended. I shall only mention a few of them

Topical bloodletting is often found serviceable when the local inflammation is great, and immediate relief desired. With this view leeches may be applied all over the inflamed part. Cupping and scarifications are less eligible, being more painful and more irritating remedies.

After sufficient bleeding has been performed and the pain has become fixed to a particular joint, blisters are highly useful, but afford little or no advantage before. To ease pain Doctor Sydenham

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applied cabbage leaves with success. Opium except with
a view to mitigate pain, ought never to be given in
the inflammatory stage of Rheumatism, unless it be
combined with some medicine calculated to induce
sweating or a determination to the skin.

Cold and cool air, as in other inflammatory
diseases are proper. The part affected should be kept
cool, the dressings should be thin, and the bed clothes
light or barely sufficient to render the patient com-
-fortable. I have seen cold water applied in one instance
with great advantage in acute Rheumatism. It reduc-
-es inflammation and allays pain, and may be
applied either by ablution or fomentation. In a word
the cure of acute Rheumatism depends upon a
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rigid antiphlogistic plan of treatment. A low diet
should be strictly enjoined, and a total abstinence
from animal food, and from all spirituous liquors.

To guard the patient against future at-
tacks, he should be directed to avoid all the remote and
exciting causes of the disease, live alone occasionally,
and prevent coiturness by the occasional use of gentle
opulent medicines. The wearing of flannel next to the
skin should be recommended; also moderate and reg-
-ular exercise, the cold bath; and lastly a change
of climate. - - - - -

I come now to offer a few observations
on Rheumaticula or what is more commonly
called Chronic Rheumatism.

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Acute Rheumatism, the patient can sit up and,
with some little pain and difficulty, walk about. The
pulse is synchusula, or quick, frequent, moderately tense,
but small; the disease is not attended with shills,
but a constant fever, and the swelling disappears alto-
gether or is scarcely observable. The pains still continue
though not with their usual violence, but causing
much stiffness and tenderness of the joints, and subject to
increase at night. They are likewise increased by motion
and the changes of the weather: hence patients often
have a premonition of a change about to take place
before it actually happens.

The causes of Rheumaticula are the
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same as those producing acute Rheumatism.

The remedies for this form of Rheumatism are 1st. frequent and small venisections: without these we can make but little impression upon the disease. Blood should be drawn more or less copiously according to the constitution and state of the system, the pulse in every instance being our guide. 2^d by Cathartics: these should be gentle as the neutral salts, sulphur, Magnesia, cream of tartar, &c. 3^d by Blisters: they may be applied above or below the affected part, or immediately over it. Doctor Musk* has lately found that blisters around the joints are much more efficacious in Chronic Rheumatism than on any other place. 4th. Low diet. 5th and lastly a Salivation:

* Clinical Reports

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this acts by translating morbid excitement from the joints to the salivary glands. Without the aid of a Salivation we should be much more frequently foisted in the cure of Chronic Rheumatism, than we are under a skillful application of this invaluable remedy.

After sufficient depletion, Stimulants and tonics either internal or external, may be resorted to with advantage and safety. The particular tonics, as well as the quality and force of stimulants necessary in this state of the disease, will depend on the constitution of the patient, his former habits and his condition at the time they are to be administered.

This form of Rheumatism may also be avoided by avoiding exposure to cold, by ^{obscurely}

The act of translating words is not a simple
process, but a complex one. It is not enough
to know the words of the original language,
but to understand the thought which they
express. The translator must be able to
reproduce the thought in the language of the
reader. This is a task which requires
a deep knowledge of both languages, and
a keen sense of the meaning of the words.
The translator must also be able to
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occasionally taking a cathartic of sulphur, or some other mild purge; by wearing flannel next to the skin, the cold bath, a change of climate &c.

I come finally to our third division of this spray, which is to offer a few remarks on Rheumatgia.

This arises from an imperfectly cured Rheumatism, a neglected or protracted Rheumatica, and is usually attended with a diminished or worn out excitability.

The causes of Rheumatgia are the same as those producing acute and chronic Rheumatism. It is generally attended with lameness, but seldom with a fever. It continues not only for months and years, but frequently during life. The pains are seldom acute or constant, ^{returns} in it, but occasionally

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returns at uncertain and irregular periods. In some instances after continuing a great while, they have been known to leave the patients entirely and never to recur: though they now frequently continue even to extreme old age, rendering the patient miserable to the last moments of his existence. Persons labouring under this tedious and protracted form of Rheumatism ^{are} sometimes totally deprived of the use of their limbs, probably in consequence of ankylosis.

The Remedies for this form of Rheumatism naturally divide themselves into two classes, internal and external. I shall briefly mention such of them as have been most distinguished for their efficacy, and which are most ^{universally}

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The internal remedies are Guaiacum, either the simple or the volatile Tincture, The decoction of myrica and sassa-parilla, Tincture of poke-berries, decoction of Sassa, Mustard and pepper, The decoction or the essential oil of sassa-par, oil of amber, Camphor, or opium and Camphor combined.

The *Urtica** *Spinosa*, Richly ash, or tooth ache Tree: a watery or spirituous solution of this article has of late been highly extolled in this form of Rheumatism; but I am not able to say any thing in its favour from my own observation.

Among the external remedies to be employed in the treatment of the Rheumatologia the first to

* See Lewis Medical Museum Vol. 2 Page 161

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be impetioned is the warm bath, this has the effect
of awakening the dormant excitability of the system
and thereby preparing it for the successful use of
other remedies. When a bath of warm water fails
the vapour bath should be tried.

After the system has been roused from its tor-
pid state, the cold bath may succeed the warm,
or they may be used alternately: the efficacy of the warm
bath will be increased by dissolving in the water a
quantity of table salt.

Frictions by the hand or a flesh brush
if gentle and long continued, are of great advantage.
Stimulating unctuous preparations applied by
means of friction have often done good.

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A very good ointment is made of Opium and Carbonate of ammonia each one drachm, Camphor two scruples, olive oil one pound; rub them together, and apply a portion of the ointment twice a day. The Volatile liniment, Tincture of Cayenne pepper, the spirits of turpentine, and applications of mustard and Horehradisk have all in their turns done service in this state of the complaint.

Electricity has often succeeded when other remedies have failed. The patient should always be directed if he has not been in the habit of wearing it, to put on flannel, to use exercise, and lastly to change his air.

Visiting certain Medicinal springs will often prove curative in cases of the most obstinate kind and of long duration, when all other remedies prove abortive —

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I shall conclude this essay by observing that success in the management of the different states of Phlegmatism, as well as in the management of all other diseases, consists in an eminent degree in timing remedies. There is a time to bleed and a time to withhold the lancet; a time to purge and a time to abstain; a time to sweat and a time to give anodynes; a time to stimulate and a time when stimulants would be improper and pernicious. In a word the ~~care~~ of the disease must depend upon proper remedies in their proper times and places.

In retiring from this university in which I have enjoyed so many important advantages, it is a duty I owe to gratitude as well as to ^{individual}

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individual merit, to offer to the Medical Professors my
 unfeigned thanks. Of the instruction I have derived from
 their truly valuable lectures, I shall retain an unde-
 -rable remembrance! That each of you Gentlemen, may
 long enjoy in health and vigour that life which has
 been so publicly useful; that the sciences you teach
 may continue to flourish under your fostering
 hands, and that your labours may ultimately be
 crowned with that honor and happiness you all so
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 of Your friend and devoted

A. Muldrow